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(71)Applicant : **KYOCERA CORP**

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(54) **CUBIC BORON NITRIDE-BASED SINTERED COMPACT**

(57)Abstract:

PURPOSE: To improve the toughness and remarkably improve performance in, e.g. intermittent cutting and heavy cutting without producing a boron compound due to the use of a binder unreactive with BN.

CONSTITUTION: The objective sintered compact comprises 30-85vol.% cubic boron nitride and the remainder composed of a mixture of silicon nitride with aluminum nitride, aluminum oxide and silicon oxide or compounds thereof, or 30-85vol.% cubic boron nitride and the remainder composed of a mixture of silicon nitride with aluminum nitride and a rare earth metallic oxide or compounds thereof.

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